Climate Test Bed (CTB)
FY 2010 Information Sheet

Background

The National Centers for Environmental Prediction (NCEP) and the Climate Program Office are jointly sponsoring the Climate Test Bed (CTB) at NCEP. The goal of the CTB is to accelerate the transition of research advancements into improved NOAA operational climate forecasts, products and applications. The CTB provides an operational testing environment to support short-term competitive applied research and development projects that will result in a direct influence on operational methodologies, and/or new guidance products or techniques leading to improved quality and applicability of operational forecasts. Scientists from the broad research community, other NOAA organizations and NCEP are expected to jointly carry out competitive CTB projects. For further details on the Climate Test Bed, visit http://www.cpc.ncep.noaa.gov/products/ctb/

FY 2010 Priorities

(1) Climate Forecast System Improvements: CTB will support participation in US multi-agency Climate Process and Modeling Teams (CPTs). For guidelines regarding CPT proposal submission, please see the CPT FY2010 information sheet located at http://www.cpo.noaa.gov/opportunities/2010/pdf/FY10_CPT_Information_Sheet.pdf.

(2) Development of a Multi-Model Ensemble Climate Prediction System: CTB seeks proposals to develop and evaluate Multi-Model Ensemble (MME) approaches that employ the CFS together with other national and international fully coupled (ocean-atmosphere-land) models for improved climate prediction on intraseasonal to interannual timescales. CTB also encourages pilot projects to test MME strategies in a near-operational environment with a goal to contribute to development of the National MME (NMME) system. The pilot projects should incorporate latest research developments and best practices from both NCEP and the external community, and use available national models re-forecasts.

(3) Enhancing Operational Drought Forecasts Products and Applications: CTB encourages investigators to exploit latest progress in hydroclimatc research to improve drought monitoring and prediction products and objective verification in support of the National Integrated Drought Information System (NIDIS), especially NIDIS pilot projects. Investigators should focus on transition to operations, testing and prototype development. The use of CFS Reanalysis and Re-forecasts for product development and collaborations with NIDIS and NWS (NCEP, Office of Hydrology Development and River Forecast Centers) are encouraged.

Additional Information

Guidelines for proposal submission (applicable for priority areas (2) and (3) only): This solicitation is intended to support competitive transition projects led by scientists from

the research community outside NOAA operational center(s). Prospective investigators can contact Wayne Higgins, Wayne.Higgins@noaa.gov or Stephen Lord, Stephen.Lord@noaa.gov for potential NOAA collaborators. Proposals should not include budget requests for NOAA collaborators in the projects. The estimated total computer resources available at NCEP for FY10 proposals are 400 Units. Each Unit corresponds to a 10-year simulation run with the next generation CFS (atmospheric resolution T126L64 and ocean resolution 1 degree with1/3 of a degree resolution from 10°S to 10°N with 40 levels). Proposals should include estimated computer requirements in Units.

Contact Information

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